## EXHIBIT 4 FILED UNDER SEAL

## Case 3:20-cv-06754-WHA Document 736-4 Filed 05/16/23 Page 2 of 6 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY

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15	UNITED STATES DISTRICT COURT	
16	NORTHERN DISTRICT OF CALIFORNIA	
17	SAN FRANCISCO DIVISION	
18	GOOGLE LLC,	Case No. 3:20-cv-06754-WHA
19	Plaintiff and Counter-defendant,	Related to Case No. 3:21-cv-07559-WHA
20	v.	REPLY EXPERT REPORT OF
21		DR. KEVIN C. ALMEROTH
22	SONOS, INC.,	
	Defendant and Counter-claimant.	
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playing music or not playing music, which varies based on the current operation of the group." See Schonfeld Rebuttal Report at ¶ 88. I disagree.

- 128. As a starting point, newly-released firmware version 1.56.324896 has no impact on the observable behavior of an Accused Google Player in a scenario where the Accused Google Player is configured for individual playback (rather than grouped playback) but is not currently engaged in active playback at the time that it is added to a new speaker group. Indeed, in such a scenario, an Accused Google Player installed with newly-released firmware version 1.56.324896 behaves in the same way that Accused Google Players installed with prior firmware versions behaved, namely, the Accused Google Player handles the join group message received from the Accused Google Controller without leaving "standalone mode" or making any change to the Accused Google Player's inactive playback state. Thus, because an Accused Google Player installed with newly-released firmware version 1.56.324896 behaves in the same way that Accused Google Players installed with prior firmware versions behaved in at least one of the infringing scenarios that was presented to the Court as part of Sonos's summary judgment motion, it is my opinion that Accused Google Players installed with newly-released firmware version 1.56.324896 still infringe Asserted Claim 1 of the '885 Patent for the same reasons discussed in the Court's July 21, 2022 order.
- 129. Moreover, even focusing on a scenario where an Accused Google Player installed with firmware version 1.56.324896 is configured for individual playback and is currently engaged in active playback at the time that it is added to a new speaker group, I disagree with Dr. Schonfeld's opinion that such an Accused Google Player "begins operating as a member of the group, for example by playing music or not playing music," which is contradicted by the evidence I have reviewed.
- 130. For example, the testing I observed demonstrated that an Accused Google Player installed with firmware version 1.56.324896 does <u>not</u> start operating in a grouped mode when it is added to a new speaker group. See Section IX.A. This is confirmed by the fact that (i) the new speaker group is not launched or otherwise activated at the time it is created and (ii) the only observable change in the behavior of the Accused Google Player being added to the new speaker

released prior to that time. Thus, even setting aside the other flaws with Dr. Schonfeld's first non-infringement theory for claim limitations 1.4-1.9 that I will address next, this theory fails to provide a basis for non-infringement of Asserted Claim 1 of the '966 Patent for any Accused Google Controllers that were made and/or used prior to December 13, 2022.<sup>13</sup>

- 163. Second, this non-infringement theory is premised on Dr. Schonfeld's opinion that when an Accused Google Player installed with firmware version 1.56.324896 is added to a new speaker group via an Accused Google Controller, the Accused Google Player stops operating in "standalone mode" and "immediately begins operating as a member of the group." *See* Schonfeld Rebuttal Report at ¶¶ 104-115. However, I disagree with this opinion for similar reasons to those already explained above in connection with Asserted Claim 1 of the '885 Patent.
- 164. For instance, as a starting point, newly-released firmware version 1.56.324896 has no impact on the observable behavior of an Accused Google Player in a scenario where the Accused Google Player is configured for individual playback but is not currently engaged in active playback at the time that it is added to a new speaker group. Indeed, in such a scenario, an Accused Google Player installed with newly-released firmware version 1.56.324896 behaves in the same way that Accused Google Players installed with prior firmware versions behaved, namely, the Accused Google Player handles the join\_group message received from the Accused Google Controller without leaving "standalone mode" or making any change to the Accused Google Player's inactive playback state. Thus, because an Accused Google Player installed with newly-released firmware version 1.56.324896 behaves in the same way that Accused Google Players

<sup>&</sup>lt;sup>13</sup> In addition to the fact that this theory does not apply to Accused Google Controllers were made and/or used prior to December 13, 2022, my understanding is that every Accused Google Controller in existence today remains programmed with the functional capability to control systems that include Accused Google Players installed with prior firmware versions. In other words, my understanding is that if an Accused Google Controller is connected to a system in which one or more of the Google Accused Players have not been updated to new firmware version 1.56.324896, the Accused Google Controller still has the functional capability to carry out the accused operations in such a system – including the functional capability for creating new speaker groups sharing a common member and then invoking a selected one of the speaker group. Thus, even setting aside the other flaws with this theory discussed herein, Dr. Schonfeld's reliance on new firmware version 1.56.324896 for the Accused Google *Players* fails to provide a basis for non-infringement of Asserted Claim 1 of the '966 Patent by the Accused Google *Controllers*.

installed with prior firmware versions behaved in at least one of the infringing scenarios that was presented to the Court as part of Sonos's summary judgment motion, it is my opinion that Accused Google Players installed with newly-released firmware version 1.56.324896 satisfy the "standalone mode" limitation of Asserted Claim 1 of the '966 Patent for the same reasons that Accused Google Players installed with prior firmware versions satisfied the "standalone mode" limitation of Asserted Claim 1 of the '966 Patent.

- 165. Moreover, even focusing on a scenario where an Accused Google Player installed with firmware version 1.56.324896 is configured for individual playback and is currently engaged in active playback at the time that it is added to a new speaker group, I disagree with Dr. Schonfeld's opinion that such an such an Accused Google Player "begins operating as a member of the group, for example by playing music or not playing music," which is contradicted by the evidence I have reviewed.
- 166. For example, the testing I observed demonstrated that an Accused Google Player installed with firmware version 1.56.324896 does <u>not</u> start operating in a grouped mode when it is added to a new speaker group. *See* Section IX.A. This is confirmed by the fact that (i) the new speaker group is not launched or otherwise activated at the time it is created and (ii) the only observable change in the behavior of the Accused Google Player being added to the new speaker group is that if the Accused Google Player was engaging in active playback prior to being added to the new speaker group, it stops that active playback. *Id.* Thus, there was nothing in the testing even suggesting that an Accused Google Player installed with firmware version 1.56.324896 starts operating in a grouped mode when it is added to a new speaker group.
- 1.56.324896 shows that when an Accused Google Player is added to a new speaker group, the only difference in operation relative to prior firmware versions is that the Accused Google Player is now programmed to execute a "StopCurrentApp()" function. And as already explained above, this "StopCurrentApp()" function does not cause the Accused Google Player to start operating in a grouped mode or to otherwise engage in any behavior in accordance with a speaker group. Instead, the "StopCurrentApp()" function merely causes the Accused Google Player to stop its currently-

## Case 3:20-cv-06754-WHA Document 736-4 Filed 05/16/23 Page 6 of 6 HIGHLY CONFIDENTIAL - SOURCE CODE - ATTORNEYS' EYES ONLY supplement this Reply Report in view of Mr. MacKay's additional deposition testimony. 290. If I am requested to do so, I may respond to additional statements made, or discovery provided, by Google, or opinions submitted by expert witnesses on behalf of Google. I may do this in a responsive report or in a supplemental report as appropriate. I expect to testify at trial regarding the matters set forth in this report, if asked about these matters by the Court or by the parties' attorneys. Kevin C. Almeroth Dated: January 23, 2023